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PPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/594,896	09/29/2006	Tadahiro Ohmi	039262-0164	8303
22428 FOLEY AND	7590 03/16/201 LARDNER LLP	0	EXAM	IINER
SUITE 500		WON, BUMSUK		
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			2889	
			MAIL DATE	DELIVERY MODE
			03/16/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.	Applicant(s)			
10/594,896	OHMI ET AL			
Examiner	Art Unit			
BUMSUK WON	2889			

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

eamed	patent term a	acjustment.	See 37	CFR	1.704(0

Period for Reply	
WHICHEVER IS LONGER, FROM THI - Extensions of time may be available under the provi- after SIX (6) MONTHS from the mailing date of this or If NO period for reply is specified above, the maximum Failure to reply within the set or extended period for	um statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). hths after the mailing date of this communication, even if timely filed, may reduce any
Status	
) filed on 22 <u>December 2009.</u> 2b) This action is non-final. tion for allowance except for formal matters, prosecution as to the merits is actice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.
Disposition of Claims	
4)⊠ Claim(s) 1-36 is/are pending in the 4a) Of the above claim(s) 1-12 is. 5)□ Claim(s) is/are allowed. 6)⊠ Claim(s) 1-12 is/are rejected. 7)□ Claim(s) is/are objected to re: 8)□ Claim(s) are subject to re:	/are withdrawn from consideration. o.
Application Papers	
Applicant may not request that any o	y the Examiner. are: a) accepted or b) objected to by the Examiner. objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). ding the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). Id to by the Examiner. Note the attached Office Action or form PTO-152.
Priority under 35 U.S.C. § 119	
12)⊠ Acknowledgment is made of a cla a)⊠ All b) □ Some * c)□ None c 1.⊠ Certified copies of the prio 2.□ Certified copies of the prio 3.□ Copies of the certified cop application from the Intern	aim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). of: ority documents have been received. ority documents have been received in Application No ities of the priority documents have been received in this National Stage lational Bureau (PCT Rule 17.2(a)). oction for a list of the certified copies not received.
Attachment(s)	
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Revie	4) Interview Summary (PTO-413) Paper No(s)/Mail Date.

Information Disclosure Statement(c) (FTO/SB/00)
 Paper No(s)/Mail Date 9/26/2006.

5) Notice of Informal Patent Application
6) Other: _____

U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06)

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DETAILED ACTION

Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Election/Restrictions

Applicant's election without traverse of claims 1-12 in the reply filed on 12/22/2009 is acknowledged.

Claim Objections

Claim 3 is objected to because of the following informalities: "adsorbed" should be "absorbed". Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filled in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filled in the United States before the invention by the applicant for patent, except that an international application filled under the treaty defined in section 35(a) shall have the effects for purposes of this subsection of an application filled in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 2, and 4-12 are rejected under 35 U.S.C. 102(b) as being anticipated by Tamura (US 2005/0093455).

Regarding claim 1, Tamura discloses a vacuum tube (figures 1-3) having a reduced-pressure vessel (2) containing at least a discharge gas sealed for electric discharge, said vacuum tube characterized in that the sum total of the number of organic gas molecules, the number of water molecules, and the

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number of oxygen molecules remaining inside said reduced-pressure vessel is smaller than the number of molecules of said discharge gas (paragraph 61).

Regarding claim 2, Tamura discloses a ratio of said number of molecules of said discharge gas to the sum total of said number of organic gas molecules and said number of water molecules is not smaller than ten times (paragraph 61, not higher than 100 ppm is less than 10,000 times).

Regarding claims 4-10, the examiner notes that the preamble recites intended use of the structure disclosed by Tamura as in claim 1. MPEP 2111.02.

Regarding claim 11, Tamura discloses a gas selected from Ar, Kr, or Xe (paragraph 29).

Regarding claim 12, Tamura discloses the vessel is made of silicon oxide as a main component (paragraph 29, "quartz glass").

Claims 3 is rejected under 35 U.S.C. 102(b) as being anticipated by Katase (US 6,362,565).

Regarding claim 3, Katase discloses a vacuum tube (figures 1-3) having a reduced-pressure vessel containing at least a discharge gas sealed for electric discharge, said vacuum tube characterized in that the number of water molecules adsorbed on an inner wall of said reduced-pressure vessel is not greater than 1 x 10¹⁶ molecules/cm² (column 5, line 47 – column 6, line 3, 1 ppm of water content with 30 mm inside diameter).

Contact information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to BUMSUK WON whose telephone number is (571)272-2713. The examiner can normally be reached on Monday through Friday, 8:00 am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Minh Toan Ton can be reached on 571-272-2303. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Bumsuk Won/ Primary Examiner, Art Unit 2889